

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/Fe-499/BNG

Mine code : 30KAR03191

- (i) Name of the Inspecting : **277**) **GANGADHAR BHAKAT**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri A Syed Farooq CEO.
Official with
Designation
- (iv) Date of Inspection : 06/03/2023
- (v) Prev.inspection date : 16/03/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JANIKUNTA IRON ORE MINE**
- (b) **Registration NO.** : **IBM/216/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : JANIKUNTA
Taluka : BELLARY
Post office : INFANTRY ROAD,CANTONEMENT
Pin Code :
FAX No. : 022-42863000
E-mail : contact@hothurindia.com,su
Phone : 08392-201853,022-42868128,(
- (f) Police Station : Deogiri
- (g) First opening date : 08/02/2021
- (h) Weekly day of rest : SUN
2. Address for : JSW Mining Office, Near Talur Cross, Vidyanagar
correspondance Toranagallu, Sandur Taluk, Ballari- 583275,
Karnataka
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S HOTHUR ISPAT PVT LTD
Hothur Estates, NH 63,
Veniveerapur, Hospet Road
Bellary BELLARY KARNATAKA
Phone:08392-201853
FAX :

Owner : DR. VINOD NOWAL
DY.MANAGING DIRECTOR, M/S
JSW STEEL LIMITED, NANDI
IRON ORE MINE, BELLARY
BELLARY KARNATAKA
Phone: 9448286155
FAX :

Agent : A Syed Farooq CEO
Hothurgrand 100 feet road ,
Indiranagar-Bengaluru.-
560008 BANGALORE KARNATAKA
Phone: 9448496750
FAX :

Mining Engineer
Name : KIRAN KUMAR P,Full Time
Qualification : B.E MINING
Appointment/ : 29/10/2021
Termination date

Geologist
Name : VIKAS K P,Full Time
Qualification : MSc GEOLOGY
Appointment/ : 04/11/2022
Termination date

Manager
Name : GURURAJ
Qualification : Diploma in Mining with 2nd Class MM
Appointment/ : 01/11/2021
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP under 16(1) of MCR 2016 16/02/2017
Fresh under rule 22 MCR1960 12/09/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Proposed 6 Nos Core boreholes up to 600m.	6 Nos Core boreholes up to 229m.	All the boreholes have been drilled up to the end of the ore body.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	13.63 lakh	Exploration carried by M/s. Geotech exploration & SUMS techno labs Pvt. Ltd.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified.	G2 - 7.47 Ha G3 - 2073 Ha	-
1e	Balance reserve as on 01/04/20	-	-	Reserves as on 01.04.2022: HIO- 2.838 MT & HSIO- 0.399 MT (+45% to 67% Fe)
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed : N 1671536 to 1671758 & E 691752 to 691908 (Sections line S2 to S5).	N 1671538 to 1671752 & E 691755 to 691898 Production carried out within the proposed location i.e. in between the Sections line S2 to S5.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches of overburden and mineral proposed.	Separate benches of overburden and mineral maintained.	--
2c	Stripping ratio or ore to OB ratio	1: 2	1:2.18	Ore- 156700 te OB- 341140 te

2d	Quantity of topsoil generation in m3	NA	NIL	No topsoil generation.
2e	Quantity of overburden generation in m3	186100 Cum.	170570 Cum.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Production & development carried out within the proposed location i.e. in between the Sections line S2 to S5.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	--
3b	Quantity of ROM mineral production proposed	Iron Ore - 200060 MT	Iron Ore-156700	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal.	NIL	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	NIL	-
3f	Quantity of sub grade mineral generation.	No proposal.	NIL	-
3g	Grade of sub grade mineral generation	No proposal.	NIL	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregating from ROM. .	Mechanized method adopted for segregating from ROM	--

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	No such beneficiation study carried out.	--
3j	Provision of drilling and blasting in mineral benches	Proposed drilling & blasting in the mineral benches	Carried out as per proposal.	
3k	Provision of mining machineries in mineral benches	Excavator-04 Nos. Tippers-12 Nos. Wheel loader-2 Nos. Drilling machine -1 No. Water tanker -1 No. Crusher & Screener -1 No. Jeep -1 No.	Excavator-04 Nos. Tippers -08 Nos. Wheel loader-2 Nos. Drilling machine -1 No. Water tanker -1 No. Crusher & Sc -1 No. Jeep -2 Nos.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 7.5 m & bench width 10 m.	Maintained bench height 7.5 m & bench width 7.5 m to 8 m.	--
3m	Total area covered under excavation/pits	16.80 Ha.	16.80 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2	1 : 2.18	Ore- 156700 te OB- 341140 te.
3o	Total area put in use under different heads at the end of year	Mining -16.66 Ha. Dumps -5.70 Ha Mineral storage - 0.87 Ha Infrastructure , work shop building etc- 0.50 Ha Roads- 0.87 Ha Green belt 2.50 Ha	Mining -16.66 Ha. Dumps -5.70 Ha Mineral storage - 0.87 Ha Infrastructure, work shop building etc- 0.50 Ha Roads- 0.87 Ha Green belt - 2.50 Ha	

3p	Production of ROM mineral during the last five year period as applicable	2020-21:200005 2021-22:200060	2020-21:69800 2021-22:156700	(in tonnes) (in tonnes)
3q	General remarks of inspecting officers on method of mining etc.	There is no change in method of mining. The production carried out within the proposed location.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for OB & Mineral rejects Proposed.	Separate dumping of overburden is maintained as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	For OB- PD1 N 1671386-1671558 To E 691681 to 691899	For OB- PD1 N 1671386-1671558 To E 691681 to 691899	No topsoil generated during the year 2021-22.
4c	Number of dumps within lease area and outside of lease area	Within lease area 7 inactive dump & 1 active dump, Outside lease area - Nil.	Within lease area 7 inactive dump & 1 active dump, Outside lease area - Nil.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL.	OB dumping carried out Outside UPL.	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	7	7	
4g	Number of dumps established.	No proposal.	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining Wall and Garland Drain proposed Dump.	Yes, Retaining wall & garland drain are all along the dumps.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall -555 m & Garland Drain -312 m.	Retaining Wall -559 M Garland Drain -270 m.	Violation issued.

4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management			The lessee has constructed garland drain up to 270m against the proposal of 312m. Hence, violation issued under rule 11(1) of MCDR, 2017.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil	Mineral has not been exhaust from the pit.
5b	Area under backfilling of mined out area	No proposal	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling proposed for the year 2021-22.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP to be submitted by 1st June every year.	PMCP report for the year 21-22 was submitted on 29.05.2022.	--

6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	1.25 Ha	1.28 Ha.	
6d	No. of saplings planted during the year	4480 Nos. sapling proposed.	4512 no of saplings planted.	As per AR 2021-22.
6e	Cumulative no .of plants	-	10866 saplings.	-
6f	Any other method of rehabilitation	No proposal.	Terracing and Plantation on the slope of dumps.	-
6g	Cost incurred on watch and care during the year	Rs. 87,500/-	Rs. 1,50,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	NIL	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	NIL	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	NIL	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	NIL	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	NIL	-

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	NIL	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	NIL	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	NIL	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core zone & buffer zone.	Environmental monitoring carried out by MSV Analytical laboratory, Bellary.	All the environmental parameters were observed to be within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring carried out by MSV Analytical laboratory, Bellary. All the environmental parameters were observed to be within the permissible limits.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise and size wise sorting proposed within the lease area.	Grade wise and size wise sorting is done within the lease area.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical method adopted for grade-wise sorting.	Only dry Crushing and screening.

7c	Different grade of mineral sorted out at mines.	Lumps: Below 55%. Fines: Below 55%	Lumps: Below 55%. Fines: Below 55%	
7d	Any beneficiation process at mines	No proposal	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Only dry Crushing and screening adopted for grade-wise sorting of mineral.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	Nil.	Work is carried out within broken up area.
8b	Concurrent use or storage of topsoil	No Proposal.	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB Proposed.	Separate dumping carried out for OB.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal.	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal.	NIL	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No Proposal.	NIL	
8g	Survival rate	No Proposal.	70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tanker deployed to control airborne dust on haul roads and screening plant.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Good aesthetic beauty maintained in and around the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Feb, 2023 ***** A.R. Submitted up to 2021-22	M.R. submitted on 04/03/2023. A.R submitted on 15/06/2022.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Kiran Kumar P. Geologist- Vikash K. P.	Appear to be correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -16.66 Ha. Dumps -5.70 Ha Infrastructure , work shop building etc- 0.50 Ha Roads- 0.87 Ha Other purpose - 21.19 Ha	Appear to be correct.	
9d	Scrutiny of Annual return on afforestation	WML: 4512Nos, survival rate: 70%	Appear to be correct.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generated.	Appear to be correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: 47500 Tons ROM Production: Tons. 156700 Tons. Closing Stock of ROM: 79744.75 Tons.	Appear to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Rs. 985/- per ton production cost: Rs. 985/- per ton	Violation issued for DMF & NMET paid details have not been furnished.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 254551360 /-	Appear to be correct.
9k	Scrutiny of Annual return on mining machineries	Excavator-04 Nos. Tippers -08 Nos. Wheel loader-2 Nos. Drilling machine -1 No. Water tanker - 1 No. Crusher -1 No. Jeep -2 Nos.	Appear to be correct.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show cause position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	02/05/2023	27/06/2023				
	Rule 45(7)(i)	02/05/2023	27/06/2023				

Date :

(GANGADHAR BHAKAT)

Indian Bureau of Mines